

# Exhibit 53

ADVANCED CARDIOVASCULAR SYSTEMS  
EXTRUSION DATA SHEET

START TIME: EXTRUSION #: 10-616-1 AMOUNT (FEET): 1000  
FINISH TIME: DATE: 7-18-94 SIGNATURE/DATE *[Signature]* 7-18-94

MATERIALS : MATERIAL DESC. LOT# : RM#

~~PEEK POWDER~~ *PEEK 4-21-94*  
*NG4175A*

EXTRUDER 10 PROCESS PERSON T.TOMAS  
REQUESTOR S. SCHAIBLE  
PRODUCT SHAFT SA#  
SET-UP PARAMETERS:

MANDREL LGTH (EXT ONLY) FLUSH EXPERIMENTAL Y  
DIE I.D. .199 OVAL N ROUND Y PRODUCTION N  
MANDREL O.D. .135 XHEAD Y STRAIGHT N  
SCREW TYPE *PE 4770-3*  
SCREEN TYPE 20 80 20  
START ID/OD .032/.038  
FINISH ID/OD .032/.038

*Not good for ref.*

PROCESS PARAMETERS

TEMPERATURE SETPOINTS				SPEEDS & SETPOINTS				PSI & AIR			
ZONE 1	600.0	MELT	766	SCREW RPM	6.0	HEAD PSI	495.0				
ZONE 2	660.0	DIE	1	32.0	PSI SET	509.0	DIE PSI	509.0			
ZONE 3	675.0	DIE	2	0.0	EXTR. AMP	15.1	AIR PSI	1	4.6		
CLAMP	675.0	DIE	3	690.0	PUL SPEED	79		2	0.2		
INLET	685.0	W/B TEMP	0.0	W/B DIST.	1"			3	0.3		
G/PUMP	0.0							4	0.5		
<del>PMP OUT 600.0</del>											
XHEAD	0.0										
MATERIAL DRYING TMP. 300				DEWPOINT <i>27.5/28</i>				# OF HRS DRYING 22			

ACTUAL PARAMETER COLLECTED EVERY 10 MINUTES

SETPOINT	ACTUAL 1	ACTUAL 2	ACTUAL 3	ACTUAL 4	ACTUAL 5
G/PUMP PSI					
PUMP AMP					
SCREW RPM					
EXTRUDER AMP					
PULLER SPEED					
BARREL 1					
BARREL 2					
BARREL 3					
HEAD PSI					
TUBING O.D.					
AVG.DIA.					
AVG.STD.DEV.					